

CLAIMS

1. A therapeutic system for the treatment of tumours comprising a combination of component (i) a radiolabelled antibody and component (ii) a chemotherapeutic agent, wherein the antibody binds selectively to polymorphic epithelial mucin (PEM); the components (i) and (ii) being provided for use in the treatment of a tumour wherein the radiolabelled antibody and a chemotherapeutic agent are administered in combination with one another.
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2. A therapeutic system for use as claimed in Claim 1 wherein the antibody treatment precedes treatment with the chemotherapeutic agent.
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3. A therapeutic system for use as claimed in Claim 1 wherein the chemotherapeutic agent treatment precedes treatment with the antibody.
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4. A therapeutic system as claimed in any of Claims 1 to 3 wherein the antibody is humanised.
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5. A therapeutic system as claimed in Claim 4 wherein the antibody is HMFG-1.
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6. A therapeutic system as claimed in any preceding claim wherein the chemotherapeutic agent is selected from at least one of docetaxel, paclitaxel, doxorubicin and cisplatin.
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7. A therapeutic system for use as claimed in Claim 6 wherein the chemotherapeutic agent is docetaxel.

8. A therapeutic system as claimed in any of claims 1 to 5 wherein the chemotherapeutic agent is selected from at least one of gemcitabine, cyclophosphamide and vincristine.

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9. A therapeutic system as claimed in any previous claim wherein the tumour is associated with at least one of the following disorders: breast cancer, ovarian cancer, lung cancer, gastric cancer, bladder cancer and squamous cell carcinoma, such as head and neck cancer.

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10. A method of treating a tumour comprising exposing the tumour to a combination of component (i) a radiolabelled antibody and component (ii) a chemotherapeutic agent, wherein the antibody binds selectively to polymorphic epithelial mucin (PEM).

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11. A method as claimed in Claim 10 wherein the antibody treatment precedes treatment with the chemotherapeutic agent.

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12. A method as claimed in Claim 10 wherein the chemotherapeutic agent treatment precedes treatment with the antibody.

13. A method as claimed in any of Claims 10 to 12 wherein the antibody is humanised.

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14. A method as claimed in Claim 13 wherein the antibody is HMFG-1.

15. A method as claimed in any of claims 10 to 14 wherein the chemotherapeutic agent is selected from at least one of docetaxel, paclitaxel, doxorubicin and cisplatin.

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16. A method as claimed in Claim 15 wherein the chemotherapeutic agent is docetaxel.
17. A method as claimed in any of claims 10 to 14 wherein the chemotherapeutic agent is selected from at least one of gemcitabine, cyclophosphamide and vincristine.
18. A method as claimed in any of claims 10 to 17 wherein the tumour is associated with at least one of the following disorders: breast cancer, ovarian cancer, lung cancer, gastric cancer, bladder cancer and squamous cell carcinoma, such as head and neck cancer.
19. Use of a combination of component (i) a radiolabelled antibody and component (ii) a chemotherapeutic agent, wherein the antibody binds selectively to polymorphic epithelial mucin (PEM) in the manufacture of a therapeutic system for the treatment of cancer.
20. A use as claimed in Claim 19 wherein the antibody is humanised.
21. A use as claimed in Claim 20 wherein the antibody is HMFG-1.
22. A use as claimed in any of claims 19 to 21 wherein the chemotherapeutic agent is selected from at least one of docetaxel, paclitaxel, doxorubicin and cisplatin.
23. A use as claimed in Claim 22 wherein the chemotherapeutic agent is docetaxel.
24. A use as claimed in any of claims 19 to 21 wherein the chemotherapeutic agent is selected from at least one of gemcitabine, cyclophosphamide and vincristine.

25. A use as claimed in any of claims 19 to 24 wherein the tumour is associated with at least one of the following disorders: breast cancer, ovarian cancer, lung cancer, gastric cancer, bladder cancer and squamous cell carcinoma, such as head and neck cancer.
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26. A therapeutic system substantially as described herein with reference to one or more of the examples.
- 10 27. A method of treatment substantially as described herein with reference to one or more examples.
28. Use of a combination of component (i) a radiolabelled antibody and component (ii) a chemotherapeutic agent, wherein the antibody binds selectively to polymorphic epithelial mucin (PEM) in the manufacture of a therapeutic system for the treatment of cancer substantially as described herein with reference to one or more examples.
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